SYSTEM INDUSTRIAL TECHNOLOGY
TELECOMMUNICATIONS

DS1151N CHANNELIZER

The *DS1151B* Signal Level Meter is designed for cable system, and provides you with favorite features for reduced cost.
It also has many functions and is easy to use in a wide range of conditions.

It can measure and display the amplitude of the Carriers singly, as a group (up to 12 channels), or as a full span(at most 150 channels). Especially, the occasional disturbance can be detected by the peak-hold level measurement feature in LEVEL and SPECTRUM mode. The Analogue channel, QAM and FM channel can be set and tested efficiently; it also supports C/N measurement, voltmeter function, spectrum, auto test and data logging. It is easy for *DS1151B* to obtain a report of installation data via PC or printer.

The DS1151B can retain up to two users-define channel plans. This is a convenience for contractors who work in two systems with differing channel lineups. Plan can be automatically learned (from 8 base plans) at a cable drop or downloaded from PC files. The operator can select key channels in each user plan to be included in a Tilt\Favorite channel plan. A separate Tilt\User Plan can be configured for each User Plan.

A great convenience for the operator, the DS1151B program capability allows groups of tests to be assembled into automatic procedures that can be executed with one keystroke. Several programs can be stored in the DS1151B and called up when needed. These may include level, tilt, spectrum, and limit tests. Limit test data may be automatically stored against specified limits and assembled into reports.

Features and Information

Frequency Spectrum

- Range: 5MHZ -807MHZ
- Accuracy: ±50x10^-5
- Resolution: 10 kHz
- Channel Type:
- Analogue TV: TV
- Digital TV: QAM and QPSK

Level Measurement

- Range: 30dBμv ~ 120dBμv
- Accuracy: LEVEL±1.5dB (10℃-30℃) (≥35dBμV) ±3dB (0℃-40℃)
- SCAN (±2dB) 10℃-30℃
- Resolution: 0.1 dB
- Input Impedance: 75Ω (unbalance, BNC or F type connector)

Channel Scan

- Number of channels: 150 channels max.
- Scanning Speed: 10 channels/s
- Scale: 1, 2,5,10 dB/div
- Zoom: 1X, 2X, 3X, 4X,5X five levels of Magnification

Frequency Spectrum

- Bandwidth: 2.5MHZ, 6.25MHZ, 12.5MHZ 25MHZ, 62.5MHZ
- Scale: 1, 2,5,10 dB/div

- ***Handset/Handheld***
- ***Wider channel spectrum scanning***
- ***Data logging***
- ***Built-in voltmeter***
- ***Fast charging (3 hours)***
- ***Quick setup***
- ***Upgradeable***

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Carrier noise ratio (C/N):

- Input Range: dB/div
- Range: 20 dB ~50dB max.(depending on inputting level)
- Accuracy: ±2dB
- Resolution: 0.1dB

Digital Channel (average) Power

- Bandwidth: 0.28 MHz ~9.99MHz
- Center frequency: In the range of the measured
- Digital modulation: QAM, QPSK

Tilt measurement

- Number of channels: 4~12
- Resolution: 0.1dB
- Min video 40 dBμV ~120dBμV
- Max video 40 dBμV ~120dBμV
- Max△video 2 dB ~30dB
- Min△V/A 0 dB ~15dB
- Max△V/A 5 dB ~30dB
- Max△ADJ 0 dB ~20dB

- Trunk Voltage measurement:
- Input Range: 0V ~ 100V (AC/DC)
- Accuracy: ±1V

Additional Information

- Storage: 32k byte
- Communication Port: RS232C
- Printer: Canon and Epson
- Audio Output: Built in Speaker
- Dimensions: 218mmx95mmx49mm
- Weight: 600g
- Display:128x128LCD with Backlight

Power supply

- Battery: 3.6V 3.5AH Ni-battery
- Charger: AC90V~240V 50/60HZ
- Work Time: 1.8A 7V(max)
  Average 6~8 Hours (full charged battery)
  Charge time: Less than 3hrs

The *DS1151B* takes accurate signal level test on analogue TV, QAM and single frequency channel. Eight base channel plans and up to five user plans are provided. You can determine the user plan automatically by a special fast building mode. A full span of audio and video carriers can be displayed efficiently. You can zoom in or out for 5 levels to observe the overall flatness and amplitude of your system. By using marker, you can change the scanned channels and read out the test data of video and audio carriers.
The instrument is capable of measuring the actual power of QAM signal, and showing the shape of the modulation wave. This function takes it enable to detect the flatness of the QAM signal and found out the problem of the digital transmission system.